

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG.1

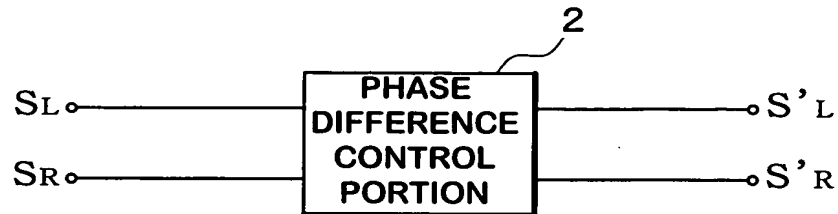
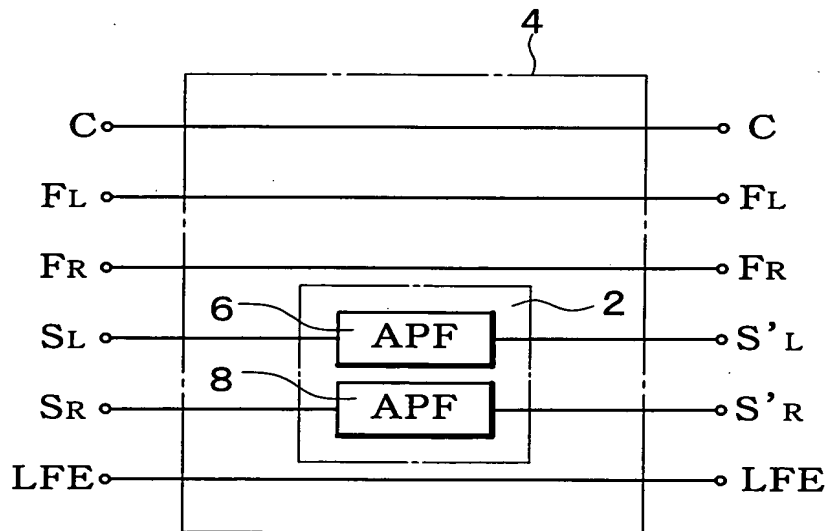


FIG.2



JCS94 U.S. PTO
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07/28/99

668240-1E2T9E60

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FIG.3A

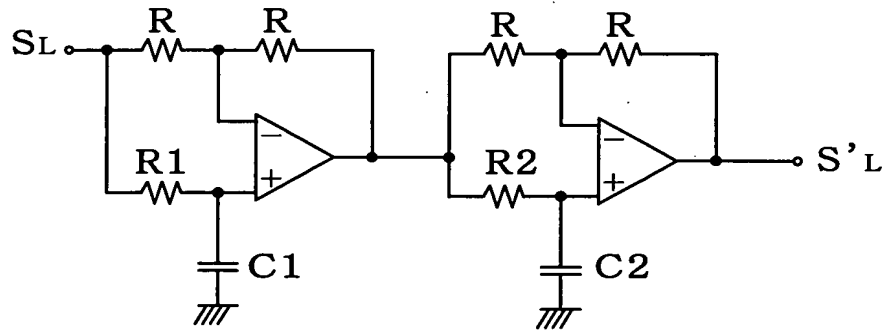
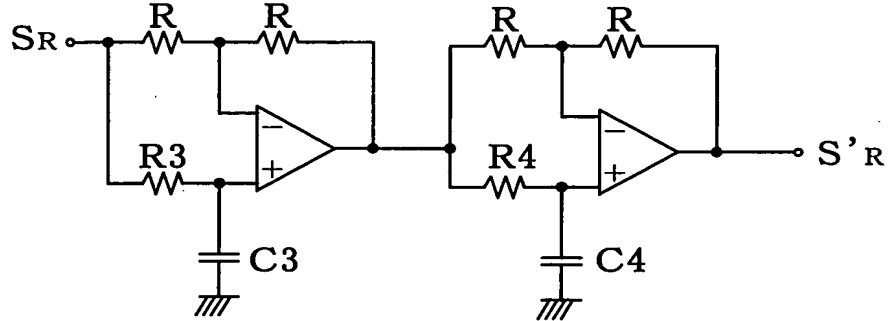


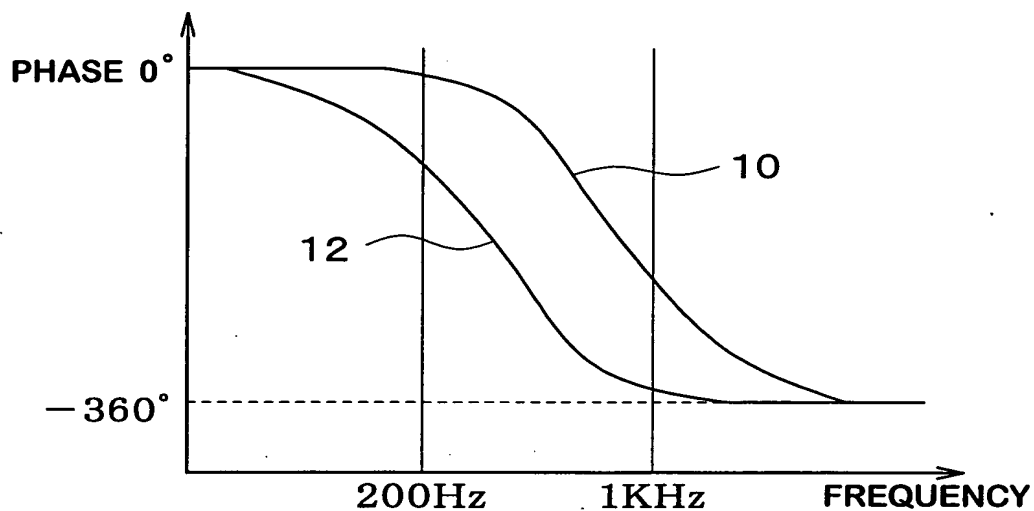
FIG.3B



668220-4E79E60

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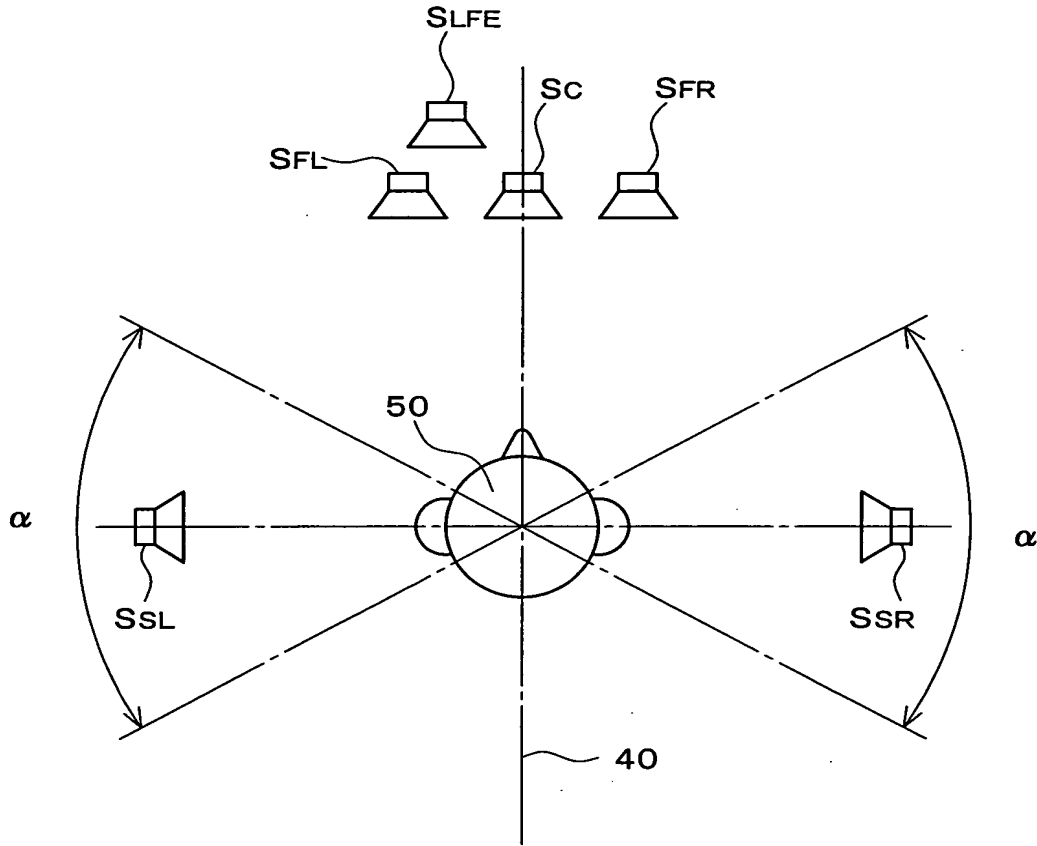
FIG.4



660220"4E2T9E60

APPROVED	O.G. FIG.	
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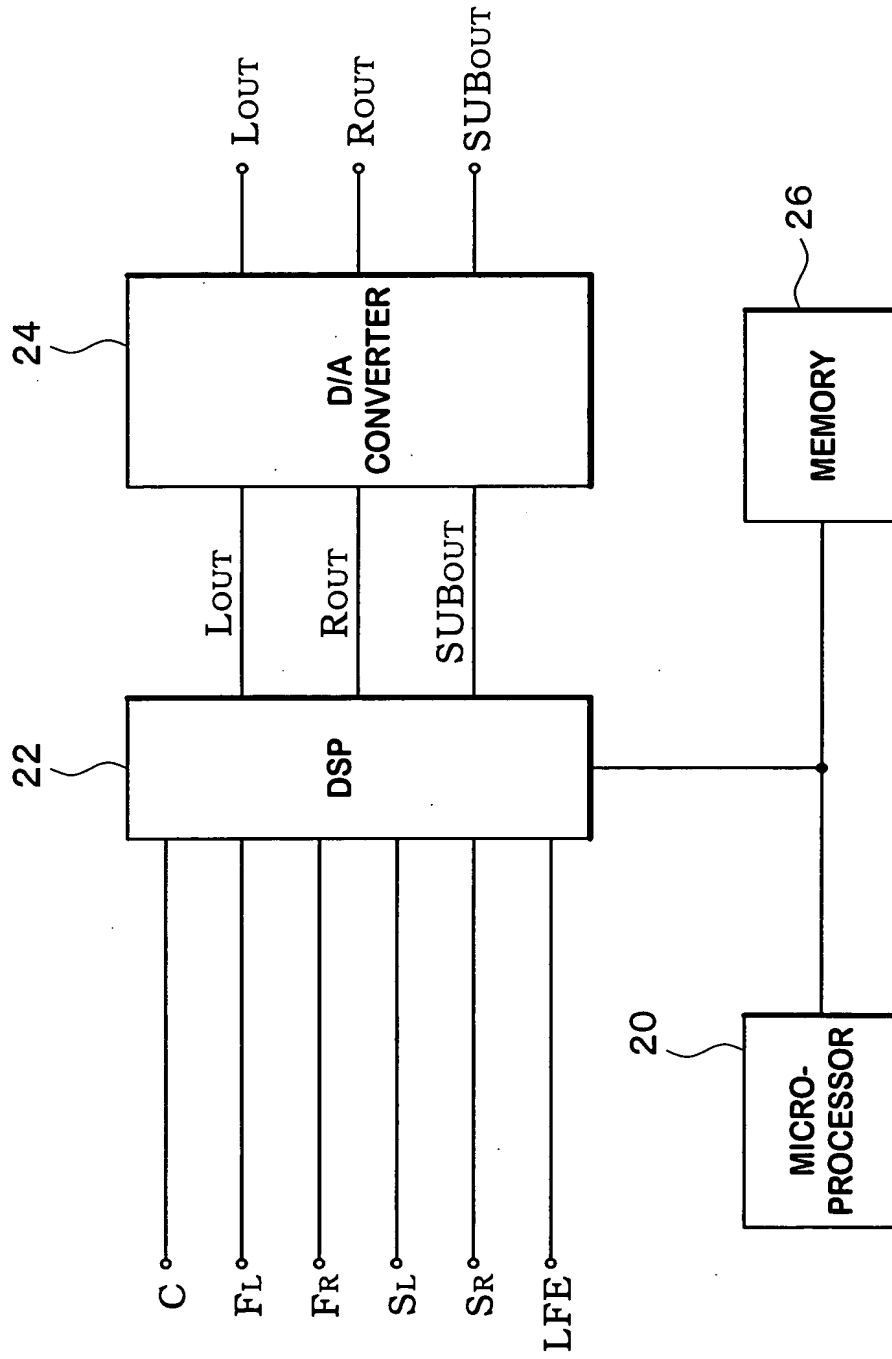
FIG.5



663240" 424T9660

APPROVED	O.G. FIG.	
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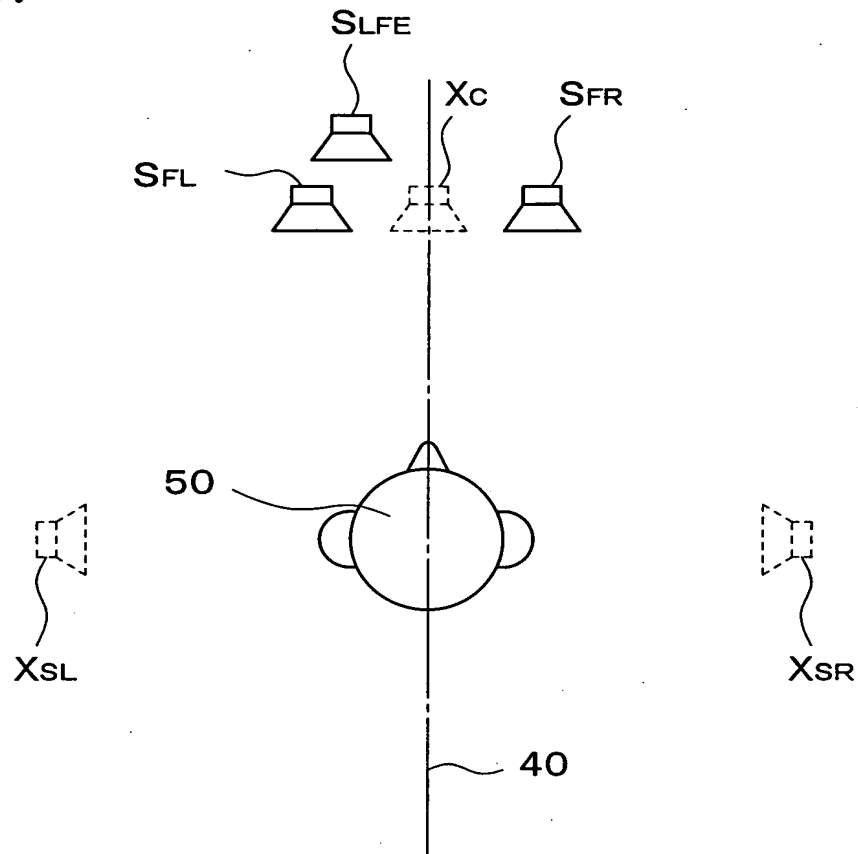
FIG.6



659220-1E4T3E60

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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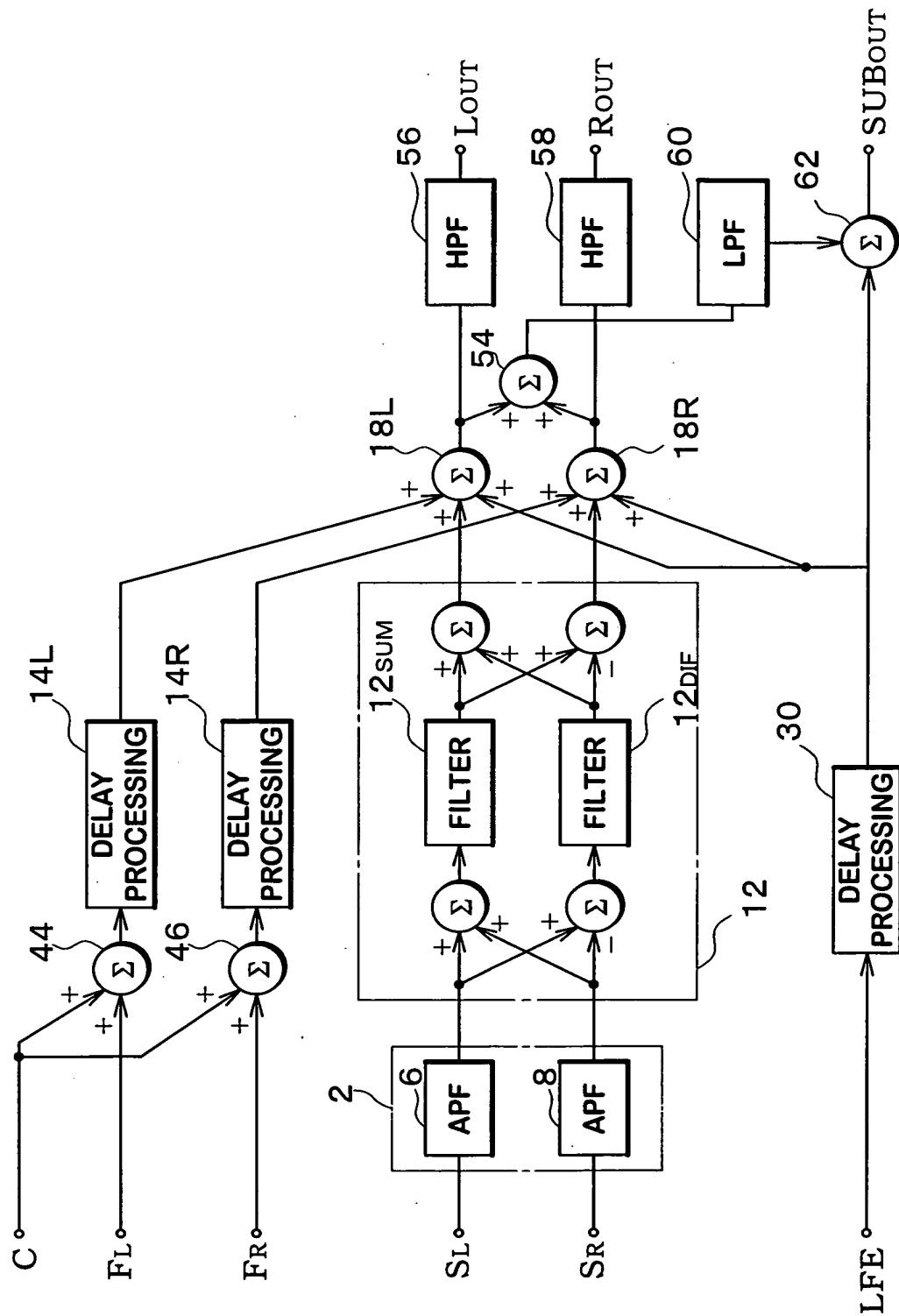
FIG. 7



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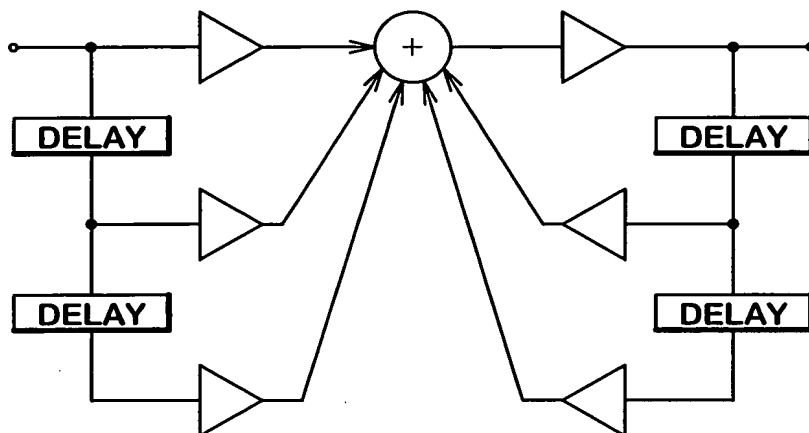
668220-4E2T9E60

FIG.8



APPROVED	O.G. FIG.	
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FIG.9



663240"4E79560

668220" HE4T9260

FIG.10

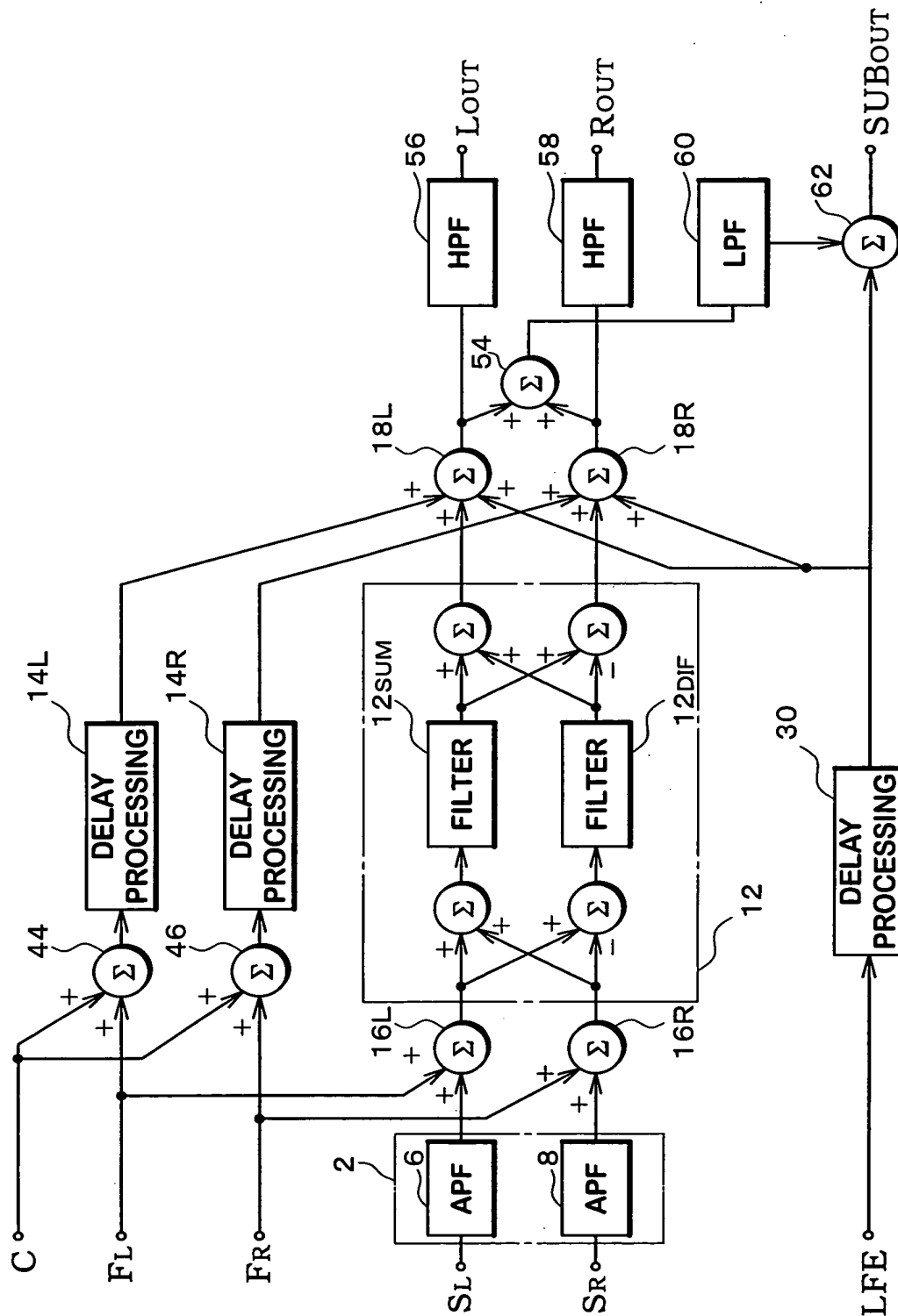
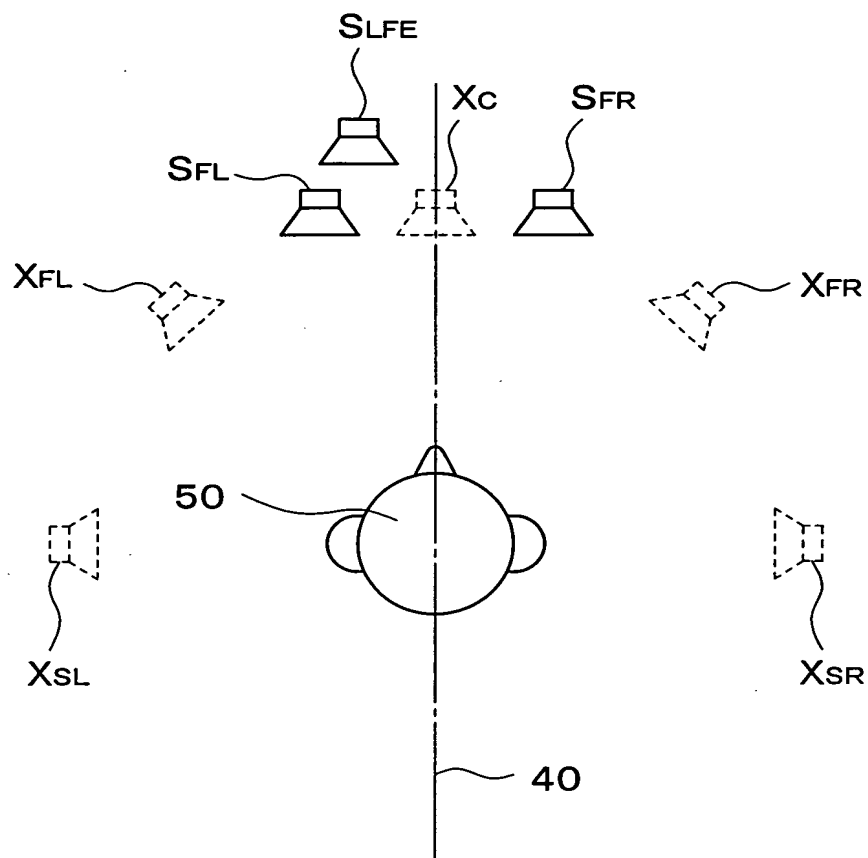


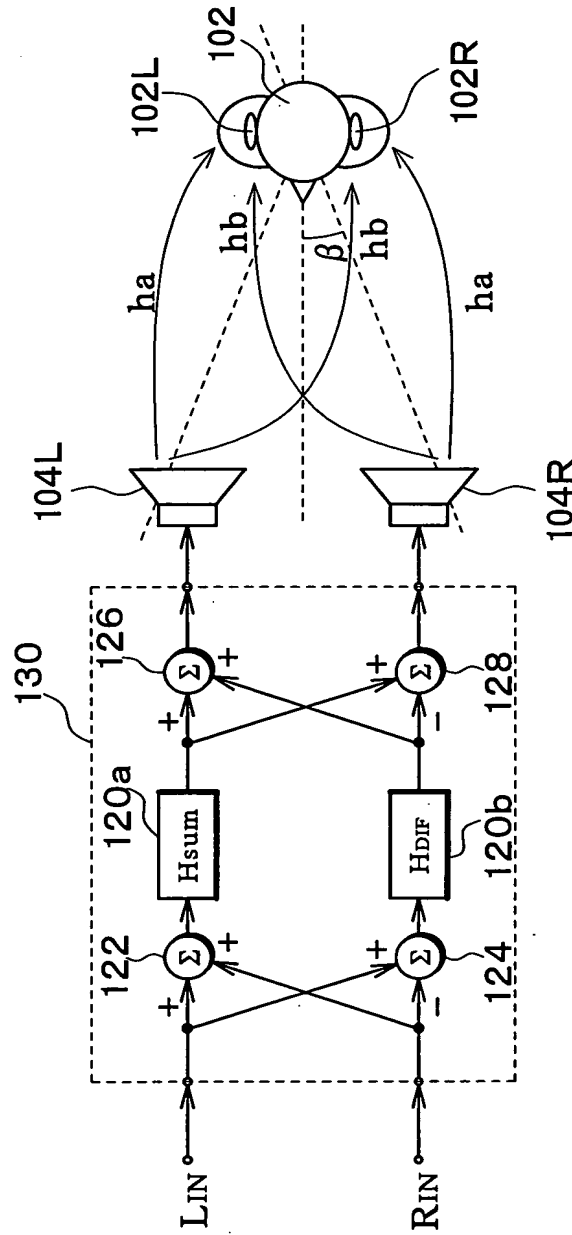
FIG.11



00361744.072669 66B22.0"4E79E60

668240" 4E4T9E60

FIG.12



APPROVED	O.G. FIG.	
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668220-1E/T9E60

FIG.13

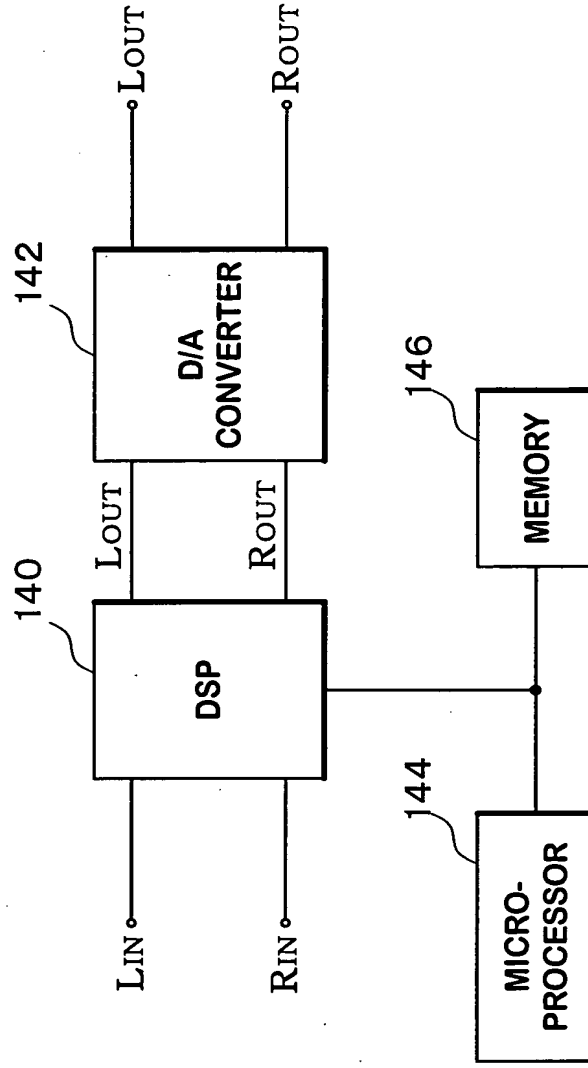
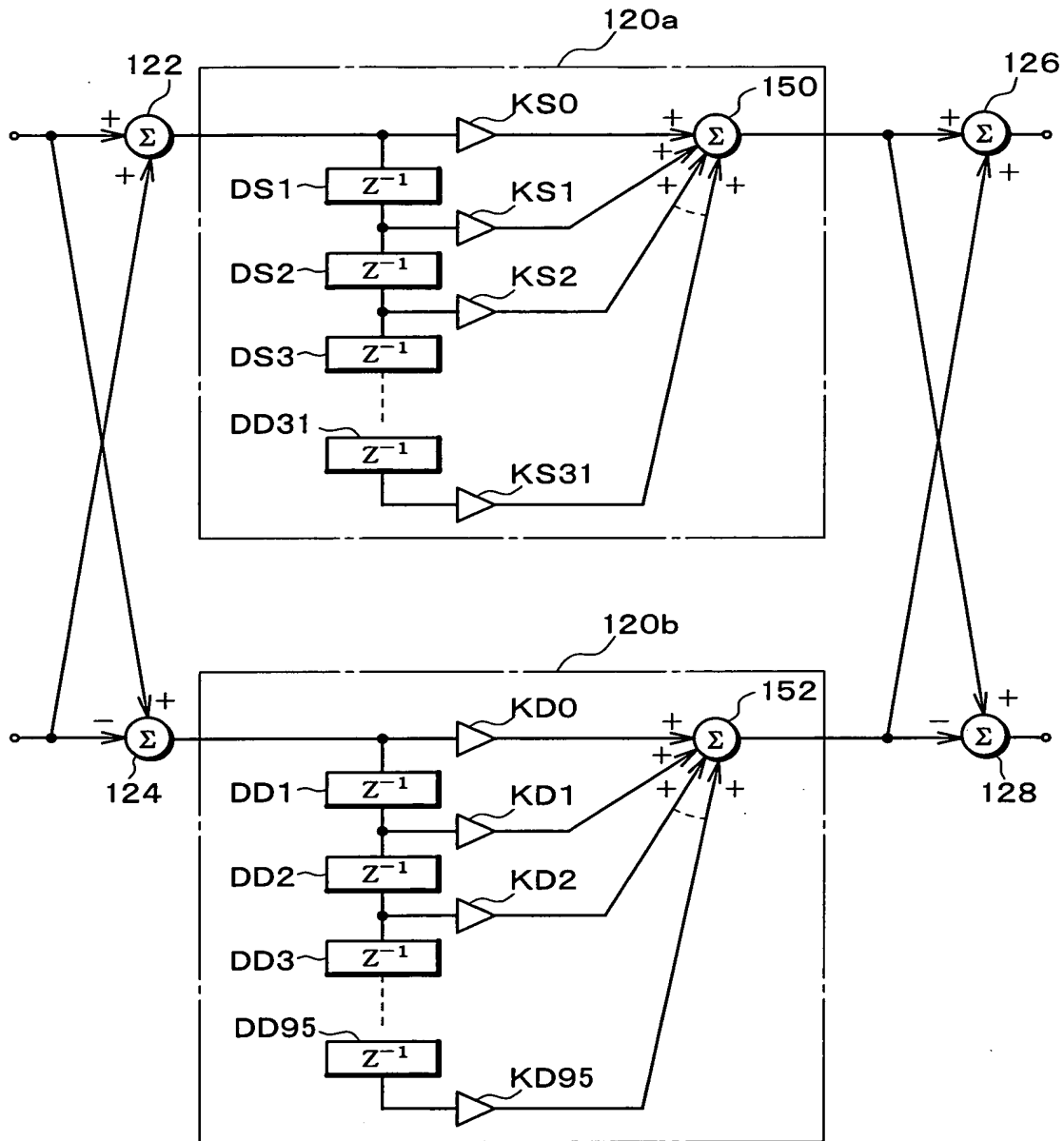


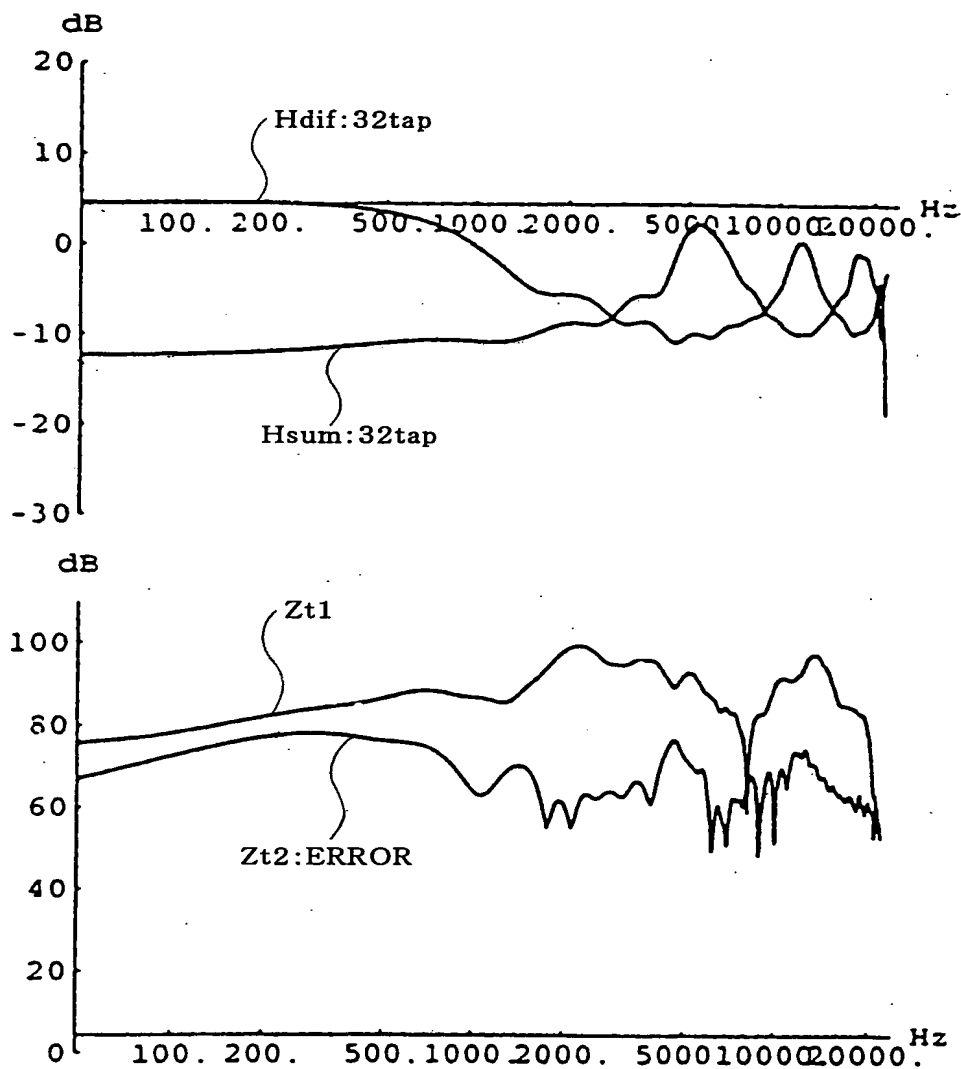
FIG.14



09361734-072899

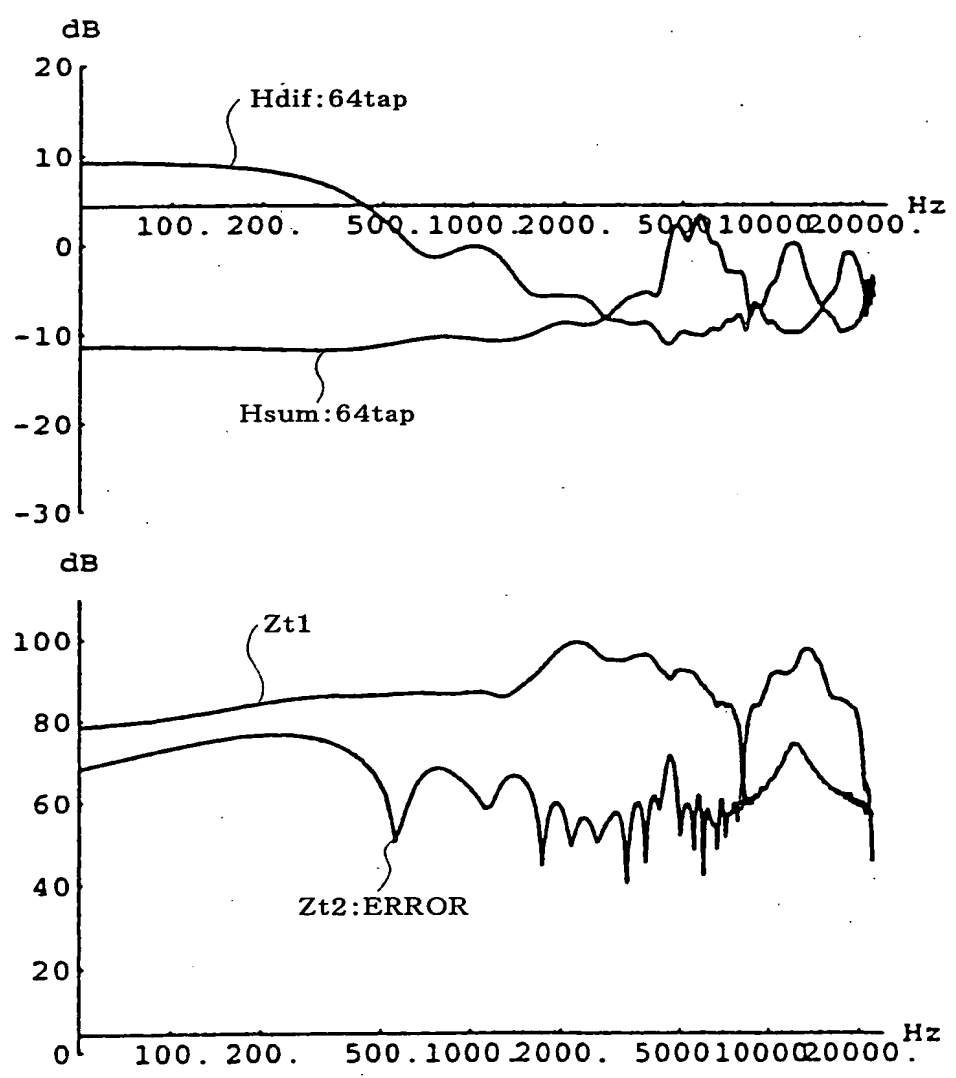
APPROVED	O.G. FIG.	
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FIG.15



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FIG.16



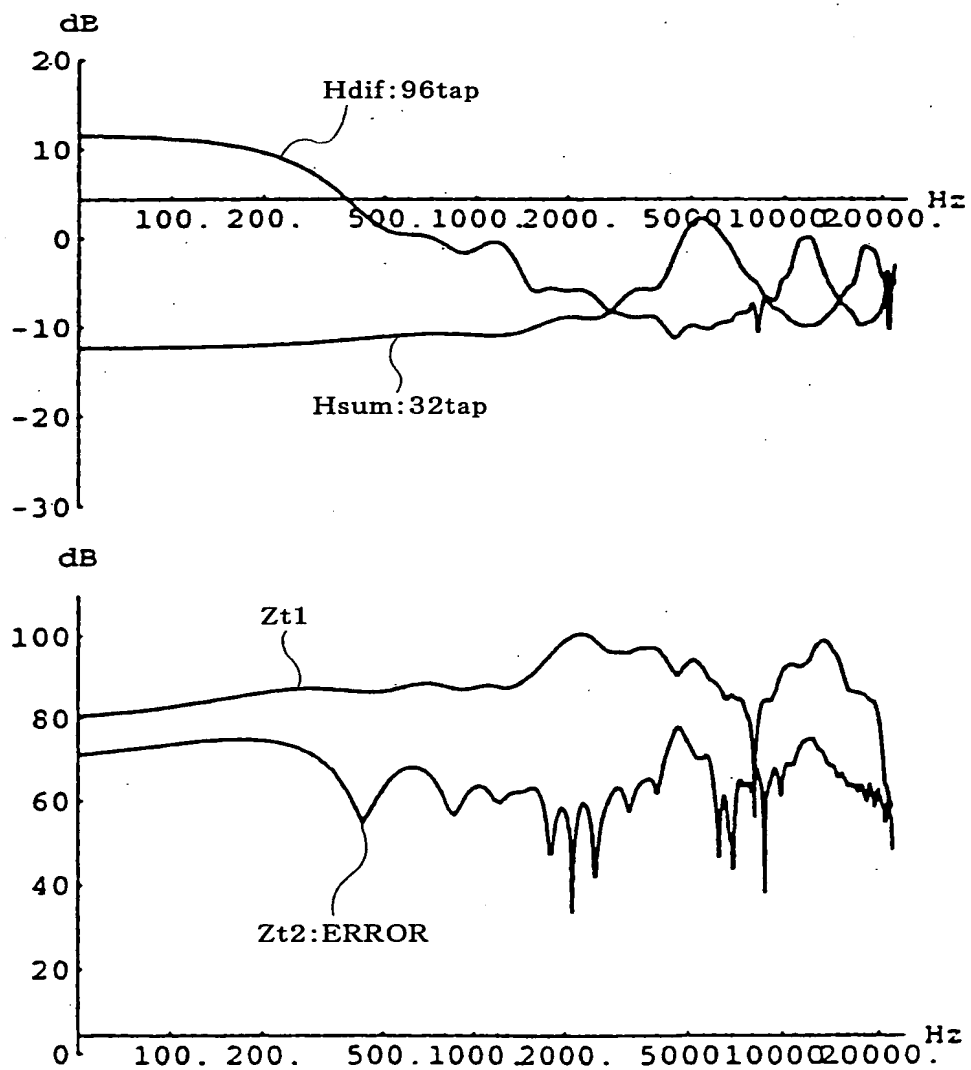
09361734-079660

The top plot displays the magnitude response of the HSD system. The y-axis is labeled 'dB' and ranges from -30 to 20. The x-axis is labeled 'Hz' and is logarithmic, with major ticks at 100, 200, 500, 1000, 2000, 5000, 10000, and 20000. Two curves are shown: 'Hdif:96tap' and 'Hsum:96tap'. 'Hdif:96tap' starts at approximately 12 dB at 100 Hz and decreases to about -10 dB at 1000 Hz, then rises to about 0 dB at 2000 Hz. 'Hsum:96tap' starts at approximately -12 dB at 100 Hz and remains relatively flat until 1000 Hz, then rises to about 0 dB at 2000 Hz.

The bottom plot displays the magnitude response of the HSD system. The y-axis is labeled 'dB' and ranges from 0 to 100. The x-axis is labeled 'Hz' and is logarithmic, with major ticks at 100, 200, 500, 1000, 2000, 5000, 10000, and 20000. Two curves are shown: 'Zt1' and 'Zt2:ERROR'. 'Zt1' starts at approximately 80 dB at 100 Hz and rises to about 100 dB at 2000 Hz, then drops to about 60 dB at 5000 Hz. 'Zt2:ERROR' starts at approximately 70 dB at 100 Hz and drops to about 60 dB at 500 Hz, then rises to about 80 dB at 2000 Hz, and finally drops to about 50 dB at 5000 Hz.

APPROVED	O.G. FIG.	
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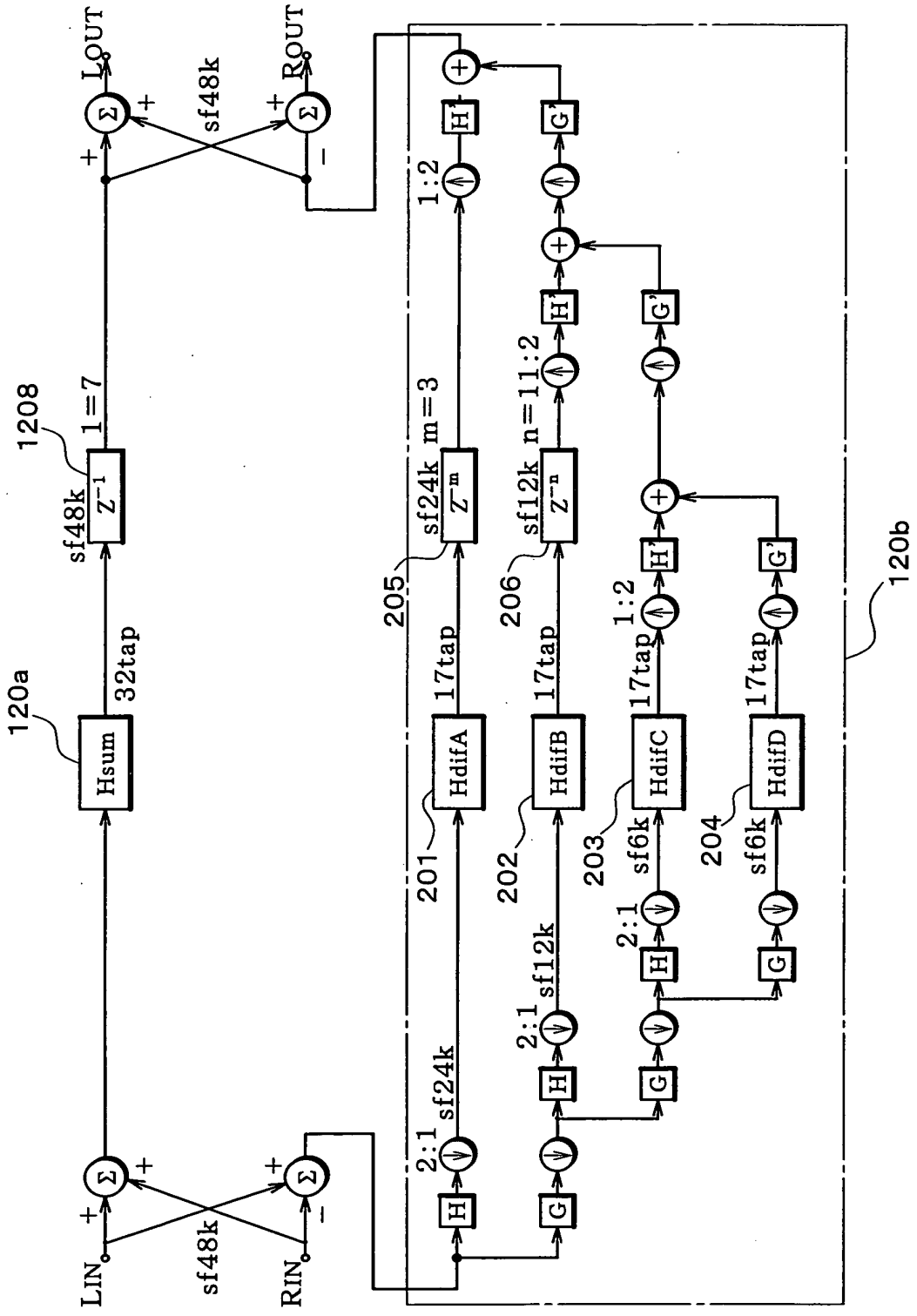
FIG.18



09361734-072899

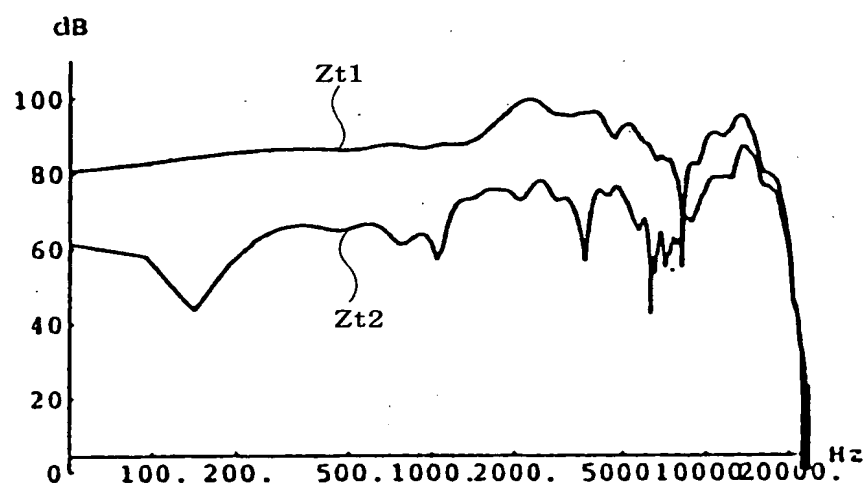
663240" 4E4T9E60

FIG.19



APPROVED	O.G. FIG.	
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FIG.20



Hsum:32tap
Hdif:128tap

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SECRET

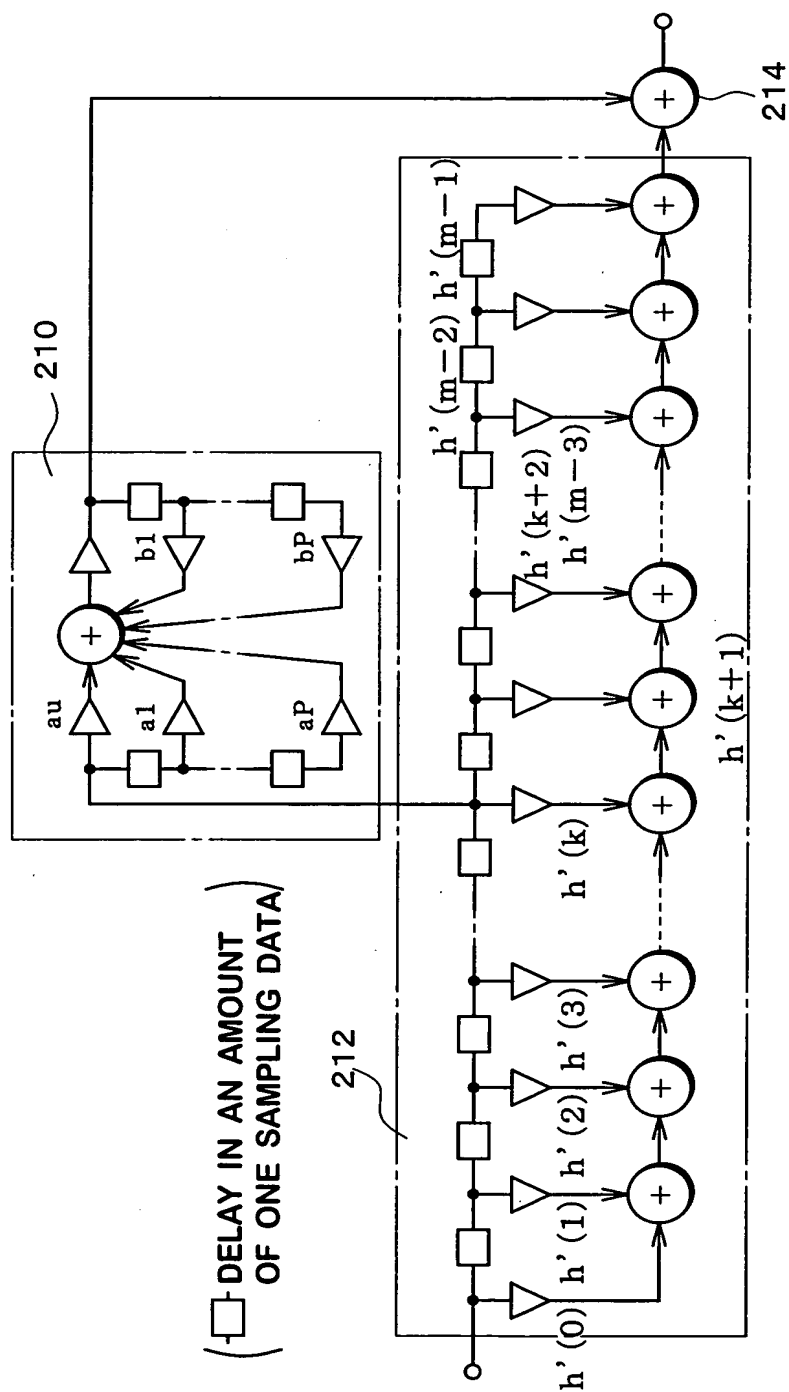
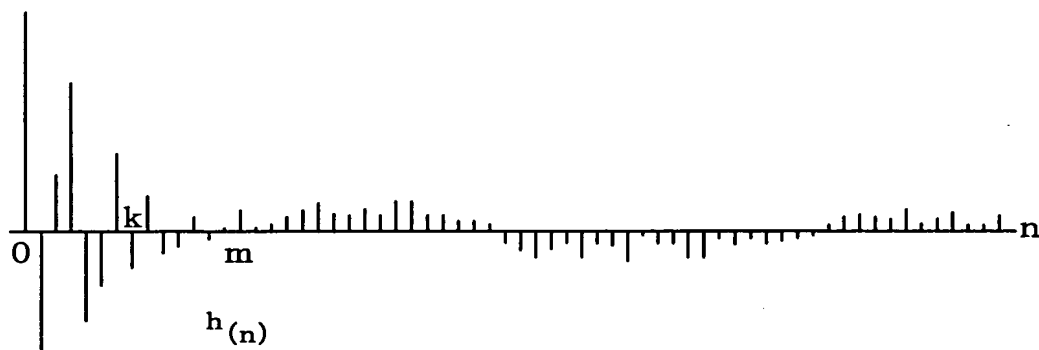
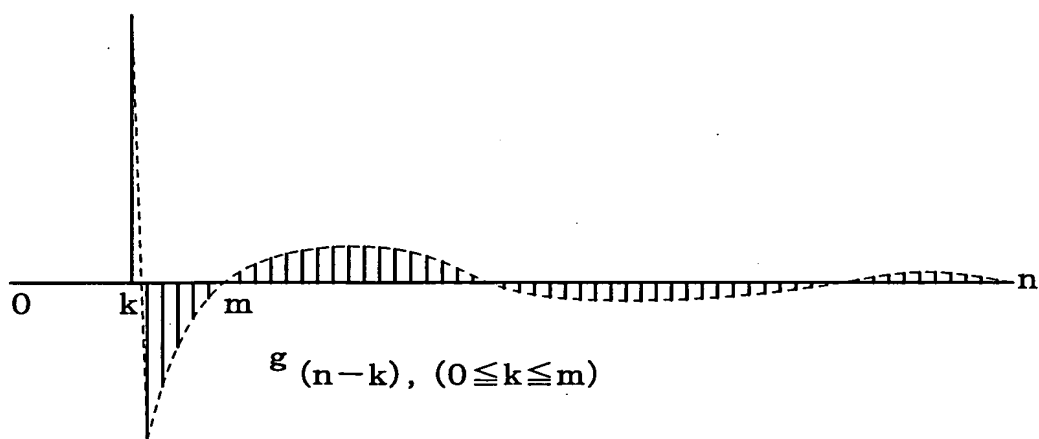


FIG.25



IMPULSE RESPONSE REQUIRED FOR FILTER

FIG.26

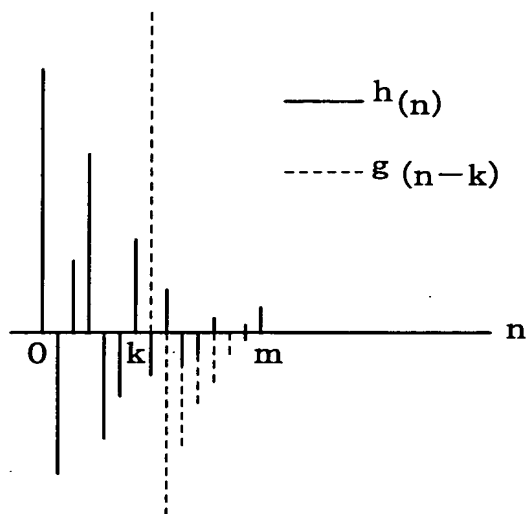


OPTIMUMLY APPROXIMATED IIR FILTER
IMPULSE RESPONSE

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FIG.27

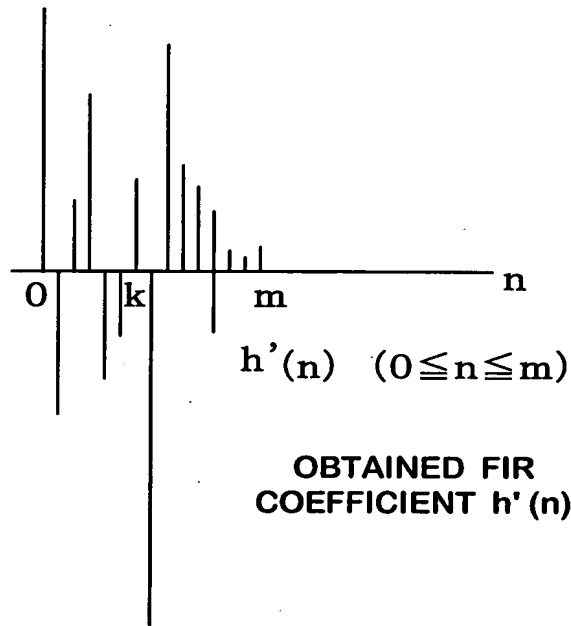


COMPARISON BETWEEN $h(n)$ AND $g(n-k)$ IN THE RANGE OF $0 \leq n \leq m$

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APPROVED	O.G. FIG.	
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FIG.28

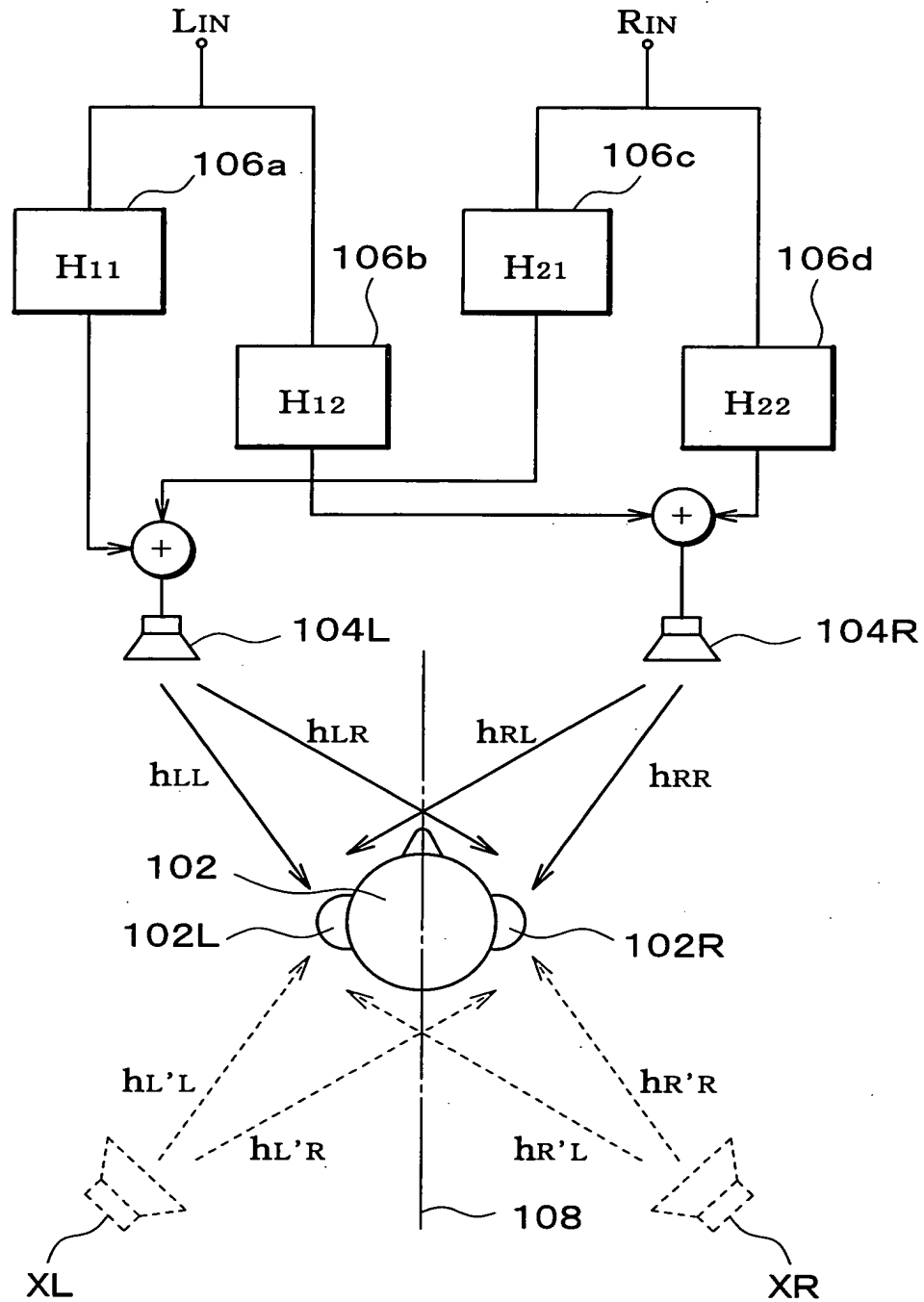


**OBTAINED FIR
COEFFICIENT $h'(n)$**

669220" 4CZT9E60

FIG.29

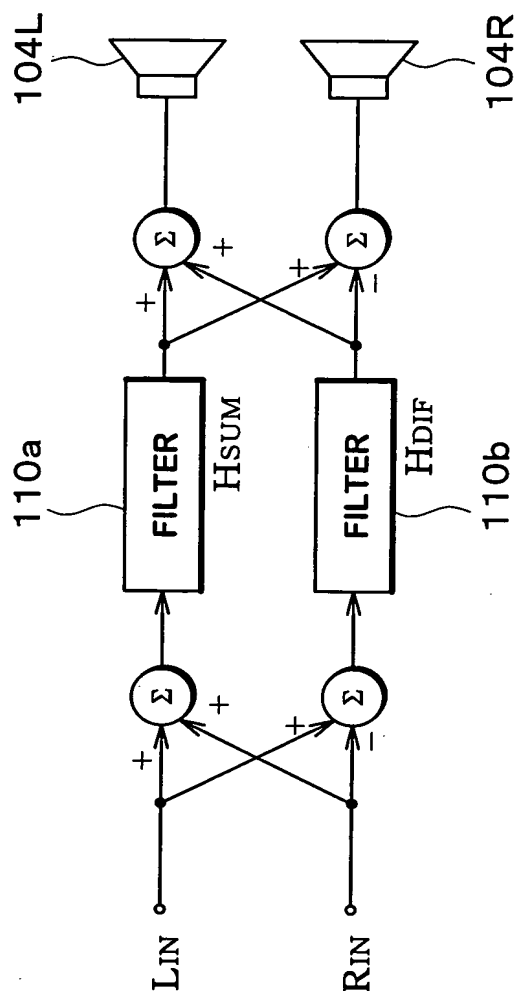
(PRIOR ART)



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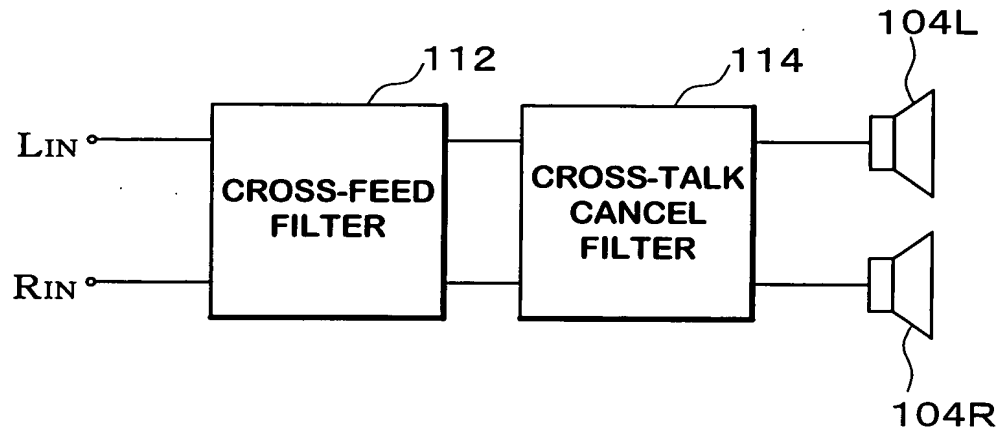
663220-4E2F9E60

FIG.30



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.31



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